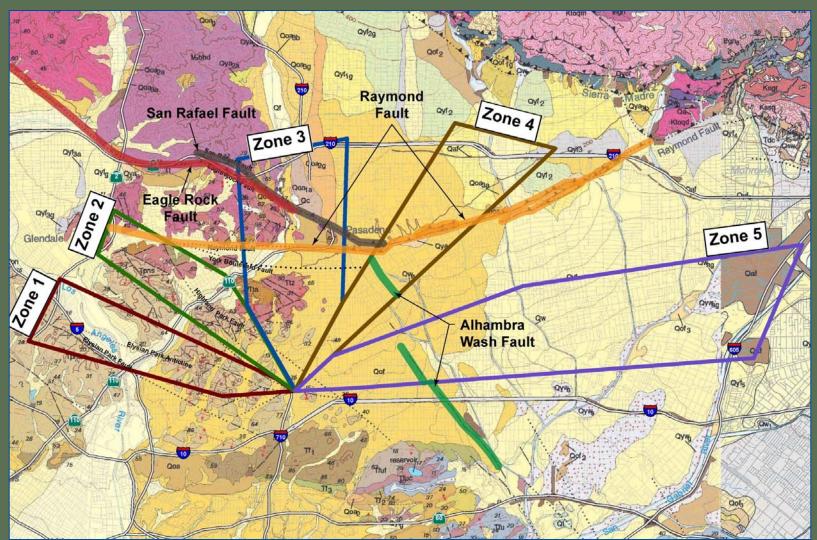
State Route 710 Tunnel Technical Study (Geotechnical Report)

California Transportation Commission Meeting July 1, 2010



Study Zone





Scope of Tunnel Study

- Collected and reviewed existing information
- Completed field exploration
- Evaluated data
- Prepared geotechnical summary report



Feasibility of Tunneling

- Tunneling feasible in all 5 zones
- Each zone presents unique geotechnical conditions
- Technology exists to address these conditions
- Successful in

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Los Angeles,

Methifornia, and around



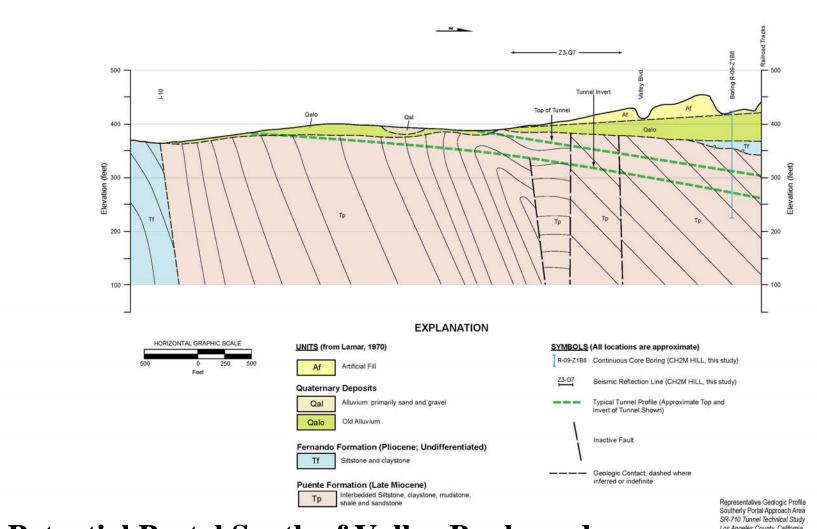


Results of Zone Comparison

Zone	Variable Ground Conditions	Unstable Soils	Active/ Potentially Active Fault Crossings	Groundwater Conditions	Gas Potential	Contaminated Soil and/or Groundwater
1	Low	Moderate	Low	Low	High	Low
2	Low	Low	Low	Low	High	Low
3	Moderate	Moderate	Low	Low	Moderate	Low
4	Moderate	High	Low	Moderate	Low	Moderate
5	Moderate	High	Low	High	Low	Moderate
Phase*	D, C	D, C	D, C, O	C, O	C, O	D, C



Approach at Valley Boulevard



Los Angeles County, California

CH2MHILL

Potential Portal South of Valley Boulevard

Study Accomplishments

- Collected an extensive amount of geotechnical data
- Completed targeted investigations to supplement existing data
- Evaluated key issues and reviewed tunnel case histories
- Determined tunneling in all 5 zones is geotechnically feasible



Metro Board Actions

MAY 2010

- Board approves staff recommendation to:
 - Receive and file geotech tunnel study findings
 - Conduct robust scoping, alternatives analysis, etc., to determine appropriate environmental documents
 - Execute necessary funding agreements w/CT
- 3 Board motions introduced, staff analysis requested

JUNE 2010

- Board clarifies 2 motions, then approves all 3 May Motions
 - One amendment to direct that all modes and zones are evaluated
- One modification to eliminate potential non-compliance of Metro CEQA/NEOA guidelines (e.g. early removal of project alternatives)

State Route 710 Gap Closure Next

Ste Robust Scoping Process – 6 Months

- Review and summarize previous studies
- Solicit public input for upcoming environmental review/analysis
- Update Purpose and Need Statement
- Develop/Refine Alternatives
- Initiate Environmental Review Process 2-2 ½ years
 - Conduct detailed traffic, air quality, health and other environmental impact analyses
 - Conduct public meetings to solicit input on project alternatives
 - Advance locally preferred alternative (s) for design
- Tandem Efforts Continuous
 - Outreach
 - Financial Analysis
 - Public Private Partnership Opportunities
 - Benefits and Costs

